CIVIL TECH LABS

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TEST REPORT

DETERMINATION OF BINDER CONTENT FROM BITUMINOUS PAVING MIXTURE FOR QUALITY CONTROL - DENSE GRADED BITUMINOUS MACADAM MIX-GRADE 2

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to main and cross roads of Someshwaranagara in ward no 04
Name of the Agency	Sri. Thilak Kumar. H. S
Date of Testing	16/07/2017
Technical Reference	ASTM: D2172/D2172M-17 - Test Method A - Centrifuge Extraction

Specification: As Per MORTH (4th Revision) Table 500-10, Minimum Bitumen Content for DGBM Grade-2 is 4.5%

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, W_1 g	1000.0
2	Total Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	951.2
3	Total weight of Bitumen extracted from the mixture, W_3 g = (W_1-W_2) g	48.8
4	Bitumen content in %, (W_3/W_1) %	4.9

Remarks	Satisfies the requirement

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

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TEST REPORT

GRADATION TEST ON DENSE GRADED BITUMINOUS MACADAM MIX GRADE - 2

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to main and cross roads of Someshwaranagara in ward no 04
Name of the Agency	Sri. Thilak Kumar. H. S
Date of Testing	16/07/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2016)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-10 for DGBM Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
37.5	100	100	**Satisfies the requirement**
26.5	90-100	95.5	
19	71-95	81.2	
13.2	56-80	74.6	
4.75	38-54	42.5	
2.36	28-42	38.6	
0.3	7-21	16.8	
0.075	2-8	7.5	

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TEST REPORT

GRADATION TEST ON DENSE GRADED BITUMINOUS MACADAM MIX GRADE - 2

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to main and cross roads of Someshwaranagara in ward no 04
Name of the Agency	Sri. Thilak Kumar. H. S
Date of Testing	16/07/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2016)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-10 for DGBM Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
37.5	100	**100**	**Satisfies the requirement**
26.5	90-100	**96.6**	
19	71-95	**82.4**	
13.2	56-80	**73.5**	
4.75	38-54	**41.5**	
2.36	28-42	**37.6**	
0.3	7-21	**17.4**	
0.075	2-8	**6.9**	

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TEST REPORT

COMBINED FLAKINESS AND ELONGATION INDEX TEST ON AGGREGATES

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of the Work	Providing asphalting to main and cross roads of Someshwaranagara in ward no 04
Name of the Agency	Sri. Thilak Kumar. H. S
Sample	Dense Graded Bituminous Macadam
Date of Testing	16/07/2017
Technical Reference	IS 2386(Part 1)- 1963 (Reaffirmed-2016)

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Requirements As per MORTH (4th Revision) Table 500-8 for DGBM
Flakiness Index	21.5	**23.6**	Maximum allowed 'C-F&E' is 30 %
Elongation Index	25.6		

Remarks	**Satisfies the requirement**

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TEST REPORT

DETERMINATION OF AGGREGATE IMPACT VALUE

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of the Work	Providing asphalting to main and cross roads of Someshwaranagara in ward no 04
Name of the Agency	Sri. Thilak Kumar. H. S
Sample	Dense Graded Bituminous Macadam
Date of Testing	16/07/2017
Technical Reference	IS 2386(Part 4)- 1963 (Reaffirmed-2016)

Sample No.	Aggregate Impact Value, 'AIV' in %	Average 'AIV' in %	Requirements As per MORTH (4th Revision) Table 500-8 for DGBM
1	23.5	24.5	Maximum allowed 'AIV' is 27%
2	24.6		

Remarks	**Satisfies the requirement**

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TEST REPORT

DETERMINATION OF AGGREGATE IMPACT VALUE

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of the Work	Providing asphalting to main and cross roads of Someshwaranagara in ward no 04
Name of the Agency	Sri. Thilak Kumar. H. S
Sample	Wet Mix Macadam
Date of Testing	10/07/2017
Technical Reference	IS 2386(Part 4)- 1963 (Reaffirmed-2016)

Sample No.	Aggregate Impact Value, 'AIV' in %	Average 'AIV' in %	Requirements As per MORTH (4th Revision) Table 400-10 for WMM
1	20.5	22.0	Maximum allowed 'AIV' is 30%
2	23.5		

Remarks	**Satisfies the requirement**

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TEST REPORT

COMBINED FLAKINESS AND ELONGATION INDEX TEST ON AGGREGATES

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of the Work	Providing asphalting to main and cross roads of Someshwaranagara in ward no 04
Name of the Agency	Sri. Thilak Kumar. H. S
Sample	Wet Mix Macadam
Date of Testing	10/07/2017
Technical Reference	IS 2386(Part 1)- 1963 (Reaffirmed-2016)

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Requirements As per MORTH (4th Revision) Table 400-10 for WMM
Flakiness Index	11.5	**25.0**	Maximum allowed 'C-F&E' is 30 %
Elongation Index	13.5		

Remarks	**Satisfies the requirement**

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TEST REPORT

STRIPPING TEST OF ROAD AGGREGATES

Bituminous Macadam (BM)

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to main and cross roads of Someshwaranagara in ward no 04
Name of Agency	Sri. Thilak Kumar. H. S
Date of Testing	24/02/2015

Method of Test	Observation No.	Uncovered Area/Stripping in %	Average Stripping Value in %	As Per Morth Table 500-03	Remarks
IS 6241-1971 (Reafirmed 2003)	1	3.52	3.68	5 % Maximum	Satisfactory
	2	3.62			
	3	3.89			

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